

Modular heavy duty truck transmission

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Abstract

© Published under licence by IOP Publishing Ltd. The design of a modular gearbox for heavy trucks, which consists of a differential divider, a main gearbox and a differential demultiplier with an integrated rear gear is described. The proposed design has smaller dimensions, weight and inertial masses of rotating parts, has greater rigidity and speed of the gear shifting process. A vehicle equipped with this transmission will make better use of the engine power and save fuel, which will increase its competitiveness in the market.

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